

PATENT ABSTRACTS OF JAPAN

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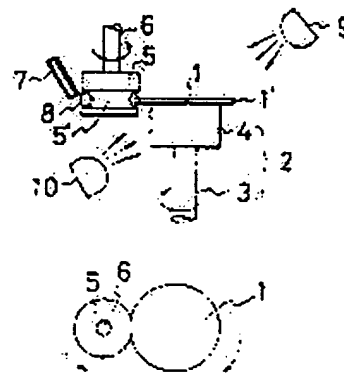
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(54) ETCHING TREATMENT DEVICE FOR SEMICONDUCTOR SUBSTRATE

(57)Abstract:

PURPOSE: To perform an etching treatment only on the end surface of a substrate by a method wherein an etching liquid, which is fed to a groove part of a roller, is held in the groove part by its surface tension and while the end surface is in contact with the etching liquid, the semiconductor substrate is rotated.

CONSTITUTION: A roller and a semiconductor substrate 1 are driven in such a way that they are respectively rotated in the direction oppositive to each other. An etching liquid 8, which is fed to a groove part 5' of the roller 5 through an etching liquid feeding nozzle 7, is held in the groove part 5' by its surface tension and is moved to a position to come into contact to an end surface 1' of the substrate 1 with the rotation of the roller 5 to perform an etching treatment for the end surface 1'. The feed of the etching liquid is stopped and pure water is discharged through a substrate cleaning nozzle 9 and a peripheral part cleaning nozzle 10 respectively to clean the substrate 1 and its peripheral part. The substrate 1 is rotated at high speed to perform a drying of the substrate. Thereby, an etching treatment is performed only on the end surface 1' of the substrate 1.



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